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# Cleaner & meaner

EFI engines, new crossover sled, fun electronics lead new lineup

BY MARK SAVAGE rctic Cat may do well to change its name to Efficient Cat for next season.

Certainly its message for 2006 is, as snowmobile product manager Joev Hallstrom says, "The days of high-horsepower, big cc engines is done." Efficiency (in the clean air sense) is Job 1.

To that end, the Cat engineers are pressing forward with cleaner, more efficient engines for next season. But don't think they've buried the fun in

their saddlebags. There's plenty, plus Arctic Cat's electronics wizards have created new items to put a charge in your saddle, not to mention your helmet!

## HIGH PERFORMANCE + **ENGINE EFFICIENCY**

First, the engine story!

It's no secret that 600cc engines lead the sales parade each year, so its natural that Cat is pumping a lot of thought and technology into its 600cc units. This year it adds the 600cc EFI II engine to its F6 mainstay.

The 600 helps Cat meet 2006 emissions standards by using an exhaust pipe sensor to cut carbon monoxide emissions by 25%. From a corporate

> Hallstrom says it also offers additional benefits to riders. First, it helps pre-

> > vent cold drive-away hesitation, an annovance when the mercurv has slipped into those single and negative digits. In addition. the new system also boosts engine acceleration, making for smoother.

quicker starts always a plus in a performance sled. Cat's addition of the 600 EFI II, plus its decision to offer only the 900

that among its high-performance sleds only the F7 and F3 have carbed, as well as EFI, engine options. Don't expect that to last for long!

Also aiding the high-pert lineup of the F5, F6, F7 and ZR9, Cat has worked on the suspensions, lowering the center of gravity and recalibrating the standard models for groomed trail riding. Most important, though, is a new, lighter weight Hacksaw track with 1-inch lugs that was jointly developed with Camoplast.

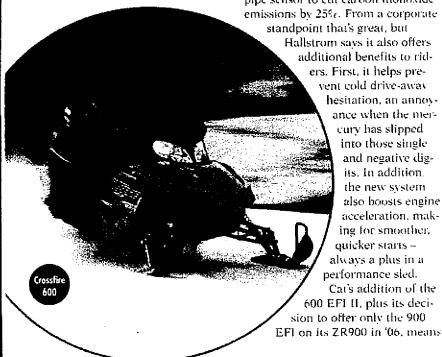
For its Sno Pro models. Cat gives the sleds more ground clearance. Fox Floar shocks with a more aggressive calibration to absorb the bumps and a 2-inch rear arm shock designed into the skid frame. The track this season will feature a 1 3/8inch lug, and all Sno Pro models will come with matching color hoods and pans, giving them a more unified. aggressive appearance.

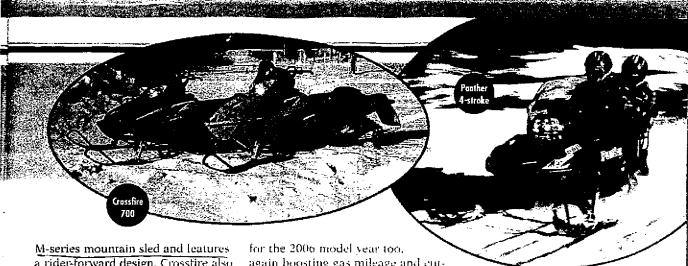
Note too that Firecat EFI R models will use the chain and sprocket style reverse gear and feature the standard suspension package. Also, fans of red Firecats will have to wait. For now that color has been dropped from the lineup.

#### CROSSOVERS GROWING

While the engine news is important. Cat's move into the hybrid market with the new Crossfire (Crossover mixed with Firecat, get i(?) may generate the most excitement among riders.

Crosstire is based on Cat's popular





a rider-forward design. Crossfire also hooks the rider up with a 136-inch Ripsaw track with 1,25-inch lugs to give the sled more off-trail powder pounding ability.

Folks get two engine choices here with the Suzuki 600cc EFI or 700cc EFI, to give the sled plenty of compli-(up to 140 hp) when you press the timottle,

Crossfire comes in black or orange. (See our First Ride review, p. 37, for more details!)

#### TRAIL PERFORMANCE

Certainly Crossfire is a hottie, but there's plenty of fun for us 45- to 55year-olds who enjoy good trail performance. That's where the Sabercat lineup comes in. All Sabercats will be LX models this year, featuring electric start and reverse, with one exception. The new Sabercat 500 EFI will be available as a standard model, too. Cat upgrades the sleds 80-horse 500cc engine with EFI to get better fuel economy and cut emissions. Plus Cat says customers have been requesting this package for several years. So this one should

In addition, Cat has reworked the throttle lever to give it a lighter feel, making this Sabercat more fun on the trails. A romp near Cat's headquarters proved this one will ditch bang with the best of them and certainly can get some air too. Note that electric start and reverse are optional on the 500 EFL

Since it's offering the new 600 EFI II on its performance sleds, you can be sure Cat is upgrading the EFI system on the Sabercat 600 LX

again boosting gas mileage and cutting emissions.

#### FAMILY AND UTILITY

Arctic Cat's family sled segment mainly sees color changes, with the F120 and Z570 models being available in green and orange, while the Z370 and 440 are only available in green for 2006. More substantive changes include hooked handlebars on the 570 models and the addition of a quieter track.

Cat also replaces the old blowmolded skis on the Z series sleds with saddleless skis to help cut weight and improve performance.

The bigger news comes on the utility sled portion of the lineup. Cat introduces a ground-up new Bearcat with higher from-end ride height, plus a new model. The new W/T (wide-track) Turbo uses the Too0's engine, a turbocharged Suzuki 4stroke triple.

Bearcuts also will feature a track with 1.25-inch lugs to help it float better in deep powder; electronic gauges; a heavy-duty hitch; new tunnel: redesigned hood and headlights: dual-runner skis; revamped handlebars: a removable passenger's seat; and hinged under-seat storage. Plus. it has a straight-rail, 8-inch rear wheel skidframe for better towing and ride.

Remote start also will be available on the Turbo and Bearcat W/T, and Cat's Multi Rack Platform will be offered as an accessory to increase the sled's hauling ability. Cat also adds electric start to the Bearcat 570, Colors? All Bearcats are blue!

## TOURING SLEDS/ **ELECTRONICS**

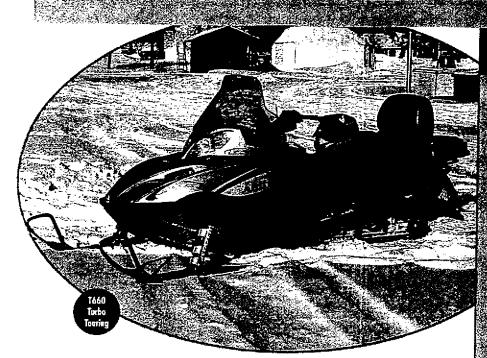
Two-up riders have a lot to think about this year, too.

First, Pantera is being dropped, so Cat is adding a new Panther 4-stroke as its two-up price leader. The Panther, which features the 660cc 4stroke that generates 110 horsepower, starts at \$6,999, a price that's slightly more than the former Pantera 550 but well below the former Pantera 600.

Available on all the Panthers is Cat's Quiet Track that reduces noise and vibration, new saddleless skis and wrap-around rear racks. The Panther 570 also offers reverse, mitrors, a high windshield, two-passenger seat with backrest, heated handgrips and an accessory outlet. Remote electric start also is being oftered for the first time on the touring models.

Cat's not done there. It's adding a T660 Touring LE and Touring Turbo LE, too. The hot news here is heated seats with separate driver and passenger controls. Plus the seats have three heat settings and are quick to warm. In lact, in a brief test tide we had to turn the heat to low because it got so toasty. The driver's control knob is just to the right and above the 12-volt power outlet.

The switches for hand and thumb warmers also have been relocated to the left handlebar, at customers' request, Cat says. And the handlebars themselves were redesigned and cleaned up. Buttons are large enough to be used by a gloved hand



and controls are backlit, including the e-stop button, for better night use, Cat also adds a bar pad to protect riders.

However, there's more to get amped up about ... Car has developed a cool communications system with AM/FM and satellite radio, that allows driver-to-driver, or driver-topassenger communications. It's available on the T660 Turbo Touring LE and Turbo LE models. Cat hopes the system will encourage more family and group rides.

The system offers 15 channels and is operated by a push-to-talk switch just below the hand and thumb warmer controls. Plus there's the radio, including satellite radio, so you can dial in a ton of stations, or you can adapt it to include an MP3 player or iPod.

There's a tiny antenna by the sled's left mirror and the radio control panel is right next to the speedometer on the dash. It's quite easy to adjust the station and sound level there.

Gary Gustafson, Cat's group leader for electrical engineering on snowmobiles, says the goal is to make any new electronics "part of the sled's central nervous system," so that it's

easy to use and becomes second nature to the rider.

His team seems to have succeeded with the communications system. Running in a large group near Thief River Falls, the system worked flawlessly with the sleds spread out for casily a half mile. Just be careful if you tune in to some really fast-paced music. You'll find yourself hurrying to keep up with it!

Didn't get to test the talk to passenger portion, but this is an intercom type system like you see on motorcycles and there's no need to press any buttons to talk to the other person. Could be fun if you enjoy chatting while on the trail! \$\is\$

## CAT INTROS NEW **BRAIN BUCKETS!**

to last B hours (60 Out the Deliveries are easy to replace. This dis light has a real early long beginning for the service state. The property of ec will execupationly ex-province Sources

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Engine Suzuki 698cc, 140 hp Cooking Liquid Expanst APV w/ tuned pipe and canister

Drive Clutch Arctic (rpm sensing) Driven, Arctic (roller carn) ACT drive system

Ski stance 42-44-in., adjustable Front suspension. AWS-VI double-wishbone A-arms with light-weight aluminum Arctic Cat gas (IFP) shocks and adjustable pre-load springs with sway bar Rear suspension. FasTrack Long-Travel System slide-rail, adjustable torsion springs, lightweight aluminum Arctic Cat (IFP) shocks, Torque Sensing Link rear arm Track: 15x136x1.25-in. w/Ripsaw pattern

Fuel capacity 12.4 gal. Dry weight 486 lbs. MSRF \$8,999

What happens when you cross Cat's M-series and Firecat lines? Well, Cat says the result is a new 2006 Crossfire, a sled set up for performance trail handling with deep snow capabilities.

Dealers began taking orders in early January for the Crossfire, Cac's mid-year release that's available as a 700 in black or orange (MSRP \$8,999) and sleds started coming off the line soon thereafter. This tough kitty will sport the 140-horsepower Suzuki 700 EFI engine.

Cat expanded the line for its 2006 lineup, offering a 600 version featuring the new 118 hp 600 EFI II engine along with its Crossfire 700.

#### **OUR IMPRESSIONS:**

AmSnow recently got its first ride on this impressive new orange snow thrower on the trails and open fields around Thief River Falls and it had us grinning all day.

Like other manufacturers, Cat went with a more rider-forward design including mountain handlebars and a reinforced steering post to help riders transition from sitting to standing. Wider running boards, like the ones found on the M-series, also are stan-



dard on Crossfire. We have found the mountain handlebars to actually work great in the twisties and we're hig fans of hooked handlebars. Also, the wider tunning boards make it a lot easier to move around on the sled.

The Crossfires also have the weightsaving ACT Diamond Drive System that replaces the chaincase with a planetary gear drive situated on the PTO side of the chassis. In addition, the sled offers removable side panels that allow quick access to the engine, clutch and brake, though in our rides we had some difficulty re-attaching the panels with the small cotter pin that holds them in place.

Up front, the Crossfire has the timetested AWS-VI double wishbone A-arm suspension, Arctic Cat gas (IFP) shocks and an adjustable 42-44-inch stance. In the back the new Cat gets the FasTrack Long Travel System sliderail suspension with Arctic Cat (IFP) shocks and a Torque Sensing Link rear arm. The Crossfire also features a deeper lugged 15x136x1.25-inch Ripsaw track, which is great for digging in to the hard-packed snow tound riding late in the season on busy trails.

The 136-inch track finally hauls in all the growling torque of the 700

engine and the mogul mashing capability of this suspension and track combination had us anxiously anticipating every bumpy section of trail. With that big track, we were able to play in a little deep stuff alongside the trails with ease. Plus it'll jump transitions like a 600!

"Cat got the ergonomics right with reconfigured handlebars that are comfortable and hi-low beams that are no longer changed with the brake lever," says test rider Les Pinz.

Jerry Bassett, our founding editor, was even more upbeat.

"Crossfire is the BEST Cat Eve ever ridden – excellent rider ergonomics, the new wider, longer track blends with 700cc twin's amazing power... This sled is extremely rider-friendly and inspires great confidence, even in old guys like me. Loved riding this sled at speed in the ditches in TRF!"

At only 486 lbs, the power-toweight ratio on the new 700 is more than a little impressive and you can really feel it on the trail. If you are a short-track Cat sled rider and haven't ridden a crossover sled yet, you'll want to try this one. You may never go back to the short track! \*